Special Issue

State-of-the-Art in Digital Manufacturing Systems

Message from the Guest Editors

This Special Issue will provide a forum for researchers and practitioners to exchange their latest research and practical experiences and also to identify critical issues and challenges for future studies in this rapidly developing area of digital manufacturing systems. Results of experimental research in field conditions are encouraged, as are evaluations of practical case studies, and state-of-the-art reviews. Conceptual and experimental articles accepted into this Special Issue are expected to contain original ideas and potential solutions available for resolving real problems. Topics include, but are not limited to, the following domains:

- Non-invasive sensing
- Cloud computing for manufacturing
- Automated fault detection
- Smart object detection for industrial safety
- Robotics and collaborative robots ('cobots')
- Machine Learning/CNN models and workflows
- Dynamic resource scheduling, allocation and optimization
- Smart maintenance and condition monitoring
- Manufacturing data visualization
- Retrofitting plant with smart technologies
- Field Programmable Gate Arrays for smart system integration
- Cyber Physical Systems for smart manufacture
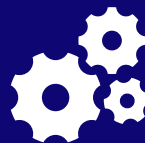
Guest Editors

Prof. Dr. Richard Hill

Dr. Muhammad Hussain

Dr. Saqib Ali

Dr. Jamal Shah

Deadline for manuscript submissions

closed (31 May 2023)

About the Journal

Message from the Editor-in-Chief

Machines is an international, peer reviewed journal on machinery and engineering. It publishes research articles, reviews and communications.
Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. Full experimental and/or methodical details must be provided.
There are, in addition, unique features of this journal: Manuscripts regarding research proposals and research ideas will be particularly welcomed; Electronic files or software regarding the full details of the calculation and experimental procedure - if unable to be published in a normal way can be deposited as supplementary material.

Editor-in-Chief

Prof. Dr. Antonio J. Marques Cardoso
CISE - Electromechatronic Systems Research Centre, University of Beira Interior, Calçada Fonte do Lameiro, P-6201-001 Covilhã, Portugal

Author Benefits

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Rapid Publication:
manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.9 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).